

Appendix Test Data for BLE (Conducted Measurement)

Product Name: Mouse

Trade Mark: Keychron

Test Model: M7

FCC ID: 2BGKB-M7

Environmental Conditions

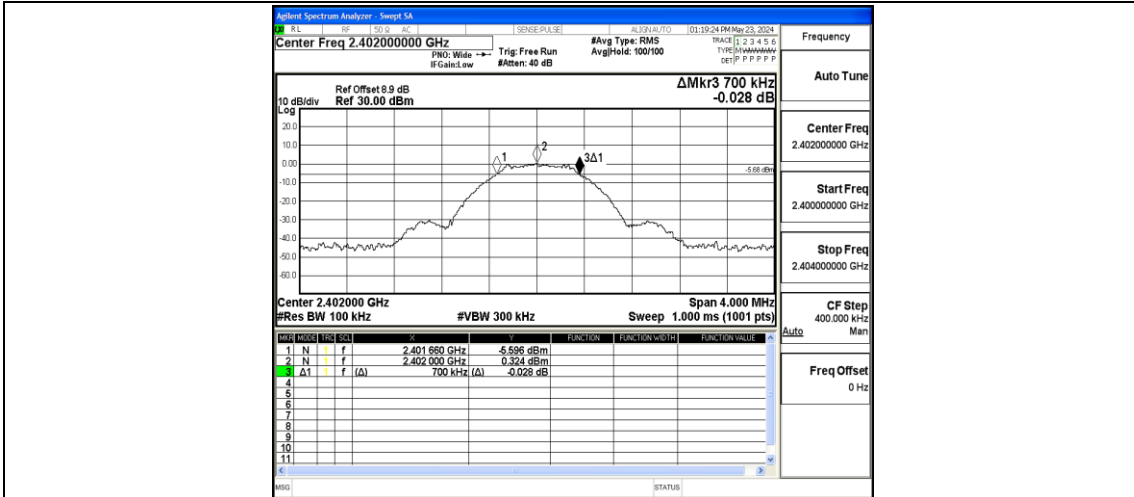
Temperature:	22.8° C
Relative Humidity:	56%
ATM Pressure:	100.0 kPa
Test Engineer:	Allen Lai
Supervised by:	Hugo Chen
NOTE	N/A

Appendix A: DTS Bandwidth

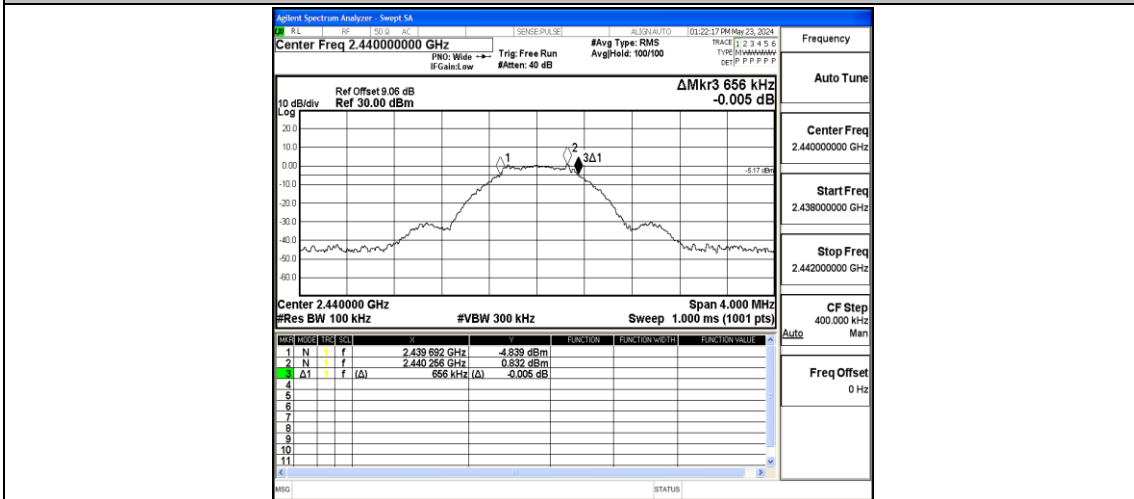
Test Result

TestMode	Antenna	Frequency[MHz]	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	0.700	2401.660	2402.360	0.5	PASS
BLE_1M	Ant1	2440	0.656	2439.692	2440.348	0.5	PASS
BLE_1M	Ant1	2480	0.672	2479.680	2480.352	0.5	PASS

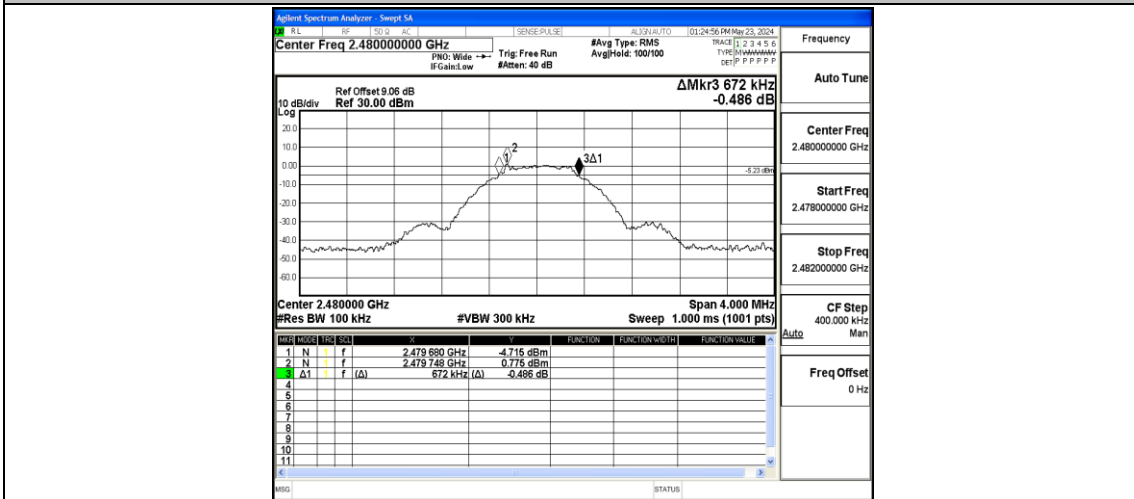
Test Graphs



BLE_1M-Ant1-240-PASS



BLE_1M-Ant1-2440-PASS



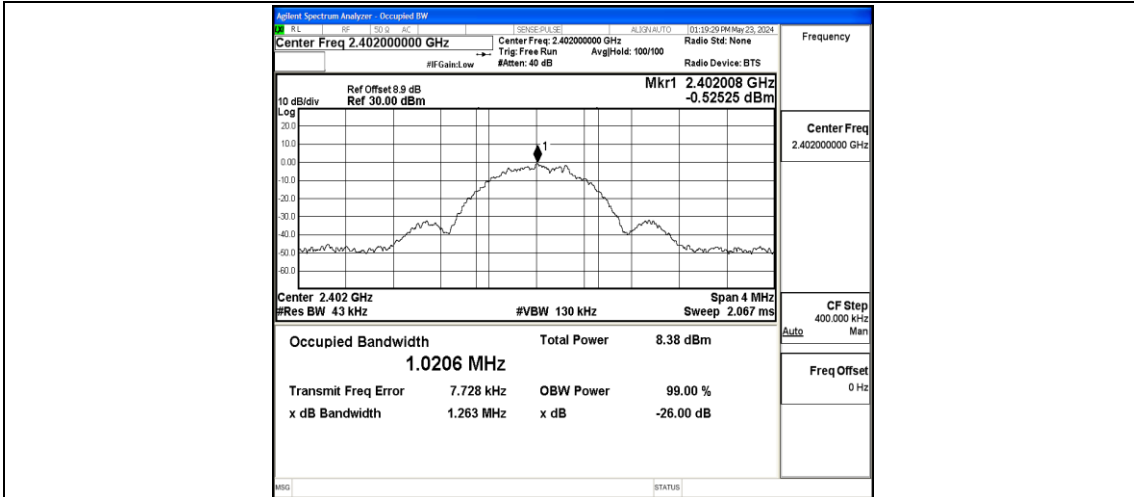
BLE_1M-Ant1-2480-PASS

Appendix B: Occupied Channel Bandwidth

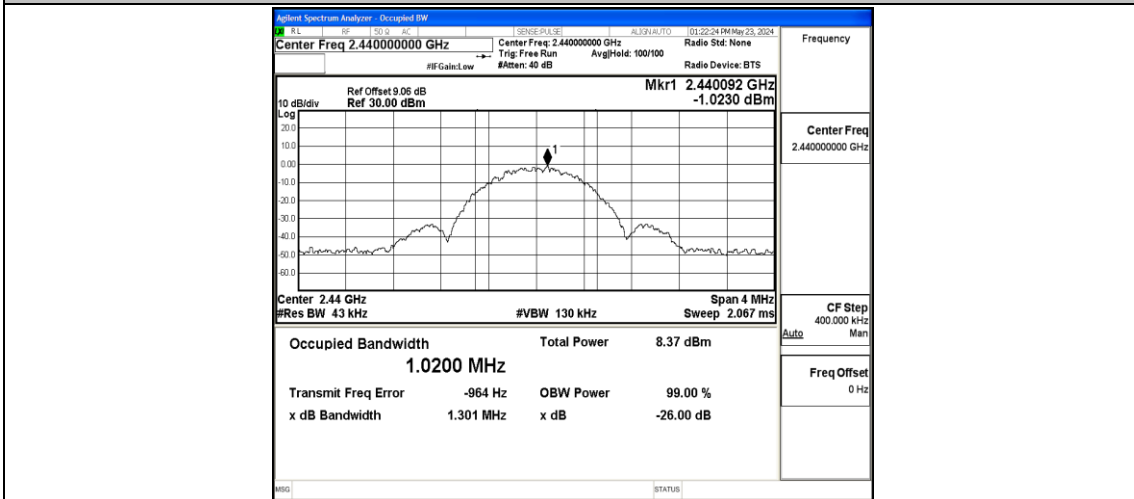
Test Result

TestMode	Antenna	Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	1.0206	2401.4974	2402.5180	---	---
BLE_1M	Ant1	2440	1.0200	2439.4890	2440.5090	---	---
BLE_1M	Ant1	2480	1.0342	2479.4897	2480.5239	---	---

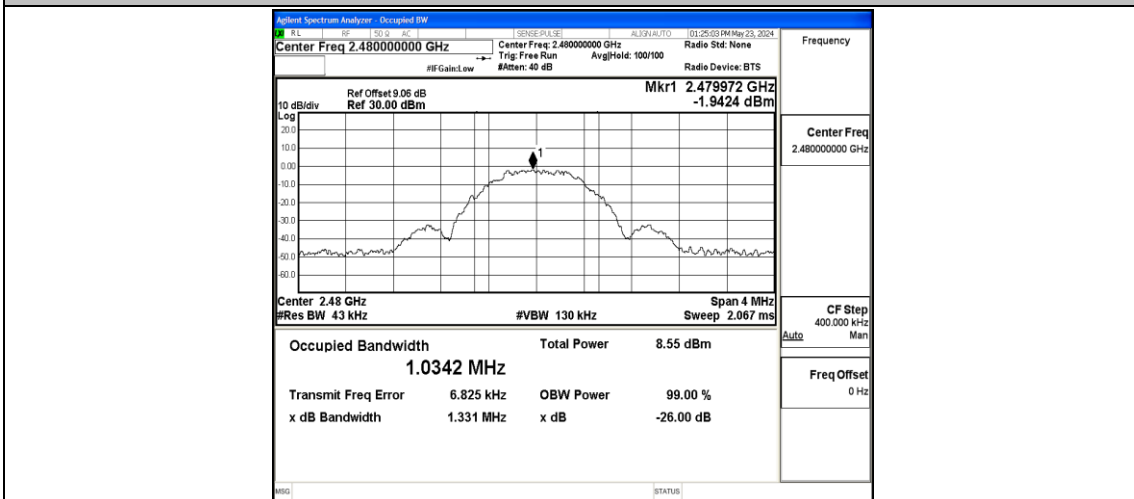
Test Graphs



BLE_1M-Ant1-2402



BLE_1M-Ant1-2440



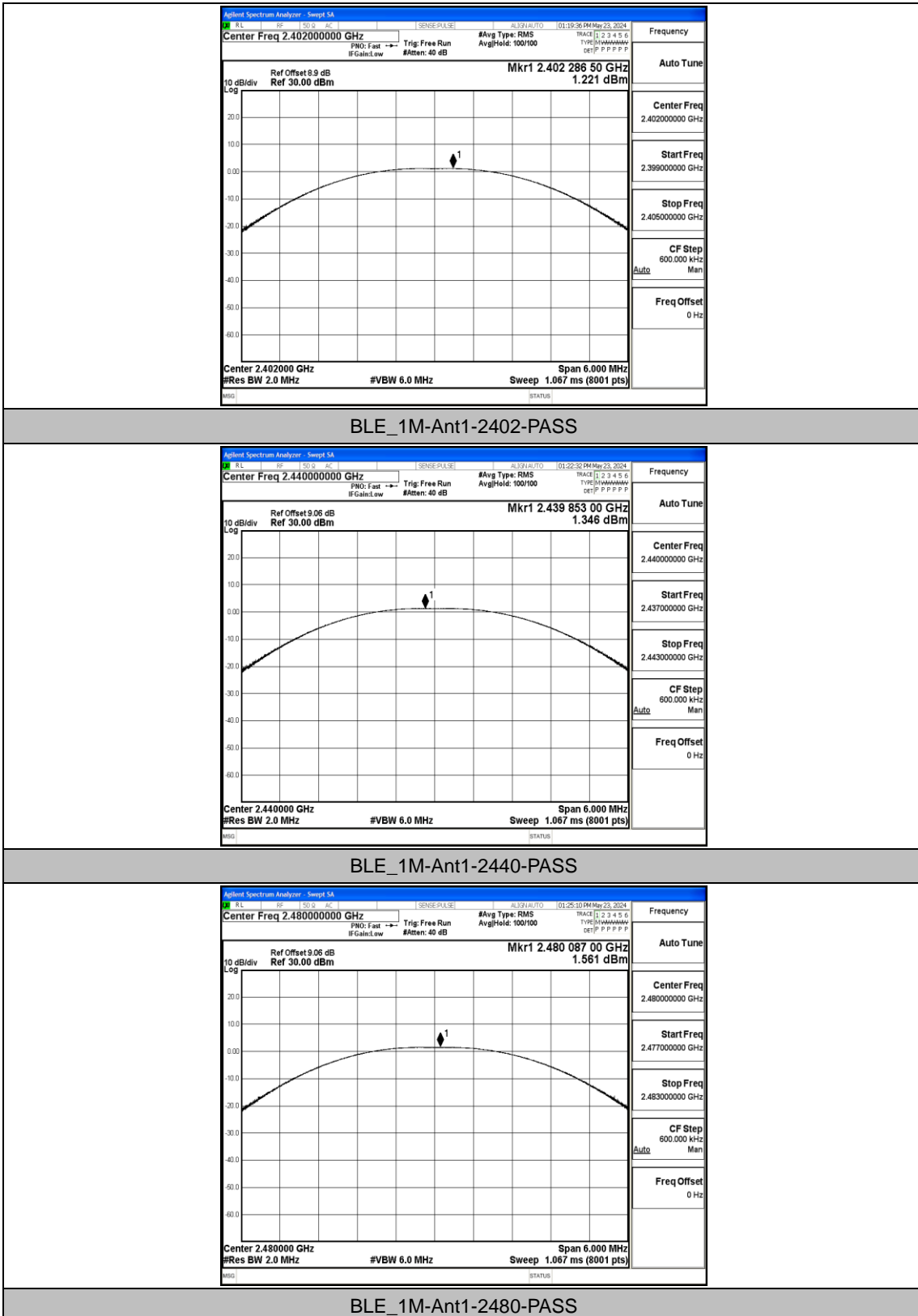
BLE_1M-Ant1-2480

Appendix C: Maximum peak conducted output power

Test Result Peak

TestMode	Antenna	Frequency[MHz]	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
BLE_1M	Ant1	2402	1.22	≤30	PASS
BLE_1M	Ant1	2440	1.35	≤30	PASS
BLE_1M	Ant1	2480	1.56	≤30	PASS

Test Graphs Peak

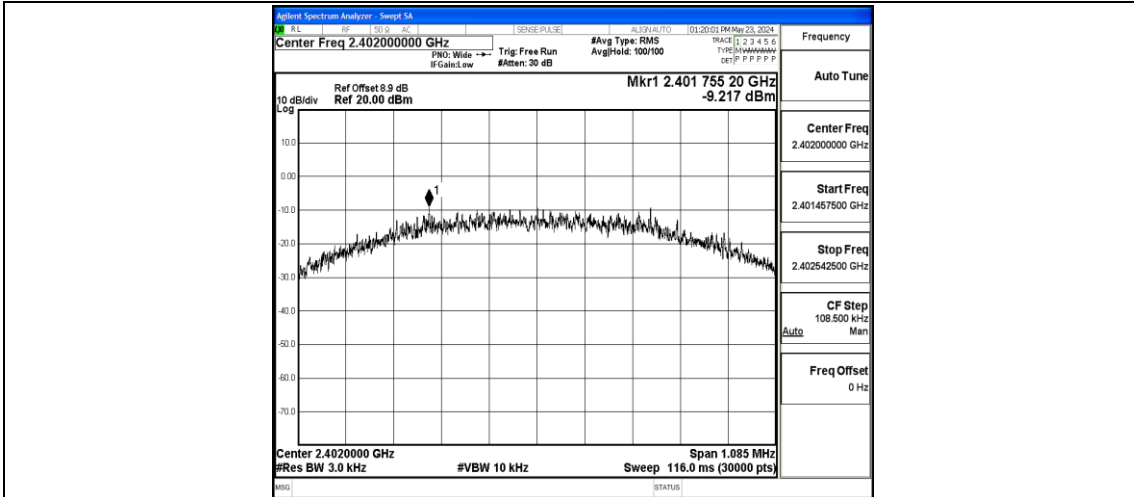


Appendix D: Maximum peak power spectral density

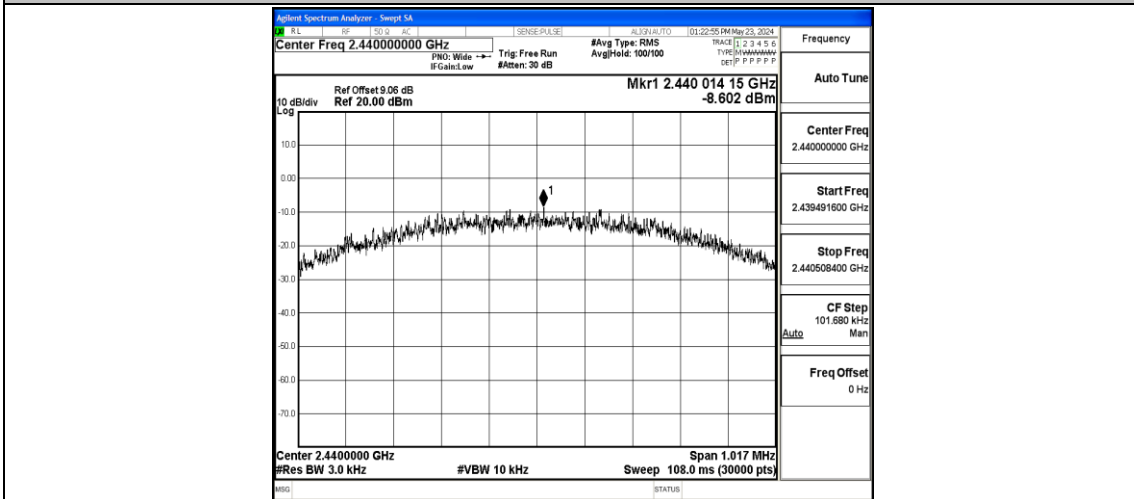
Test Result

TestMode	Antenna	Frequency[MHz]	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-9.22	≤8.00	PASS
BLE_1M	Ant1	2440	-8.60	≤8.00	PASS
BLE_1M	Ant1	2480	-7.40	≤8.00	PASS

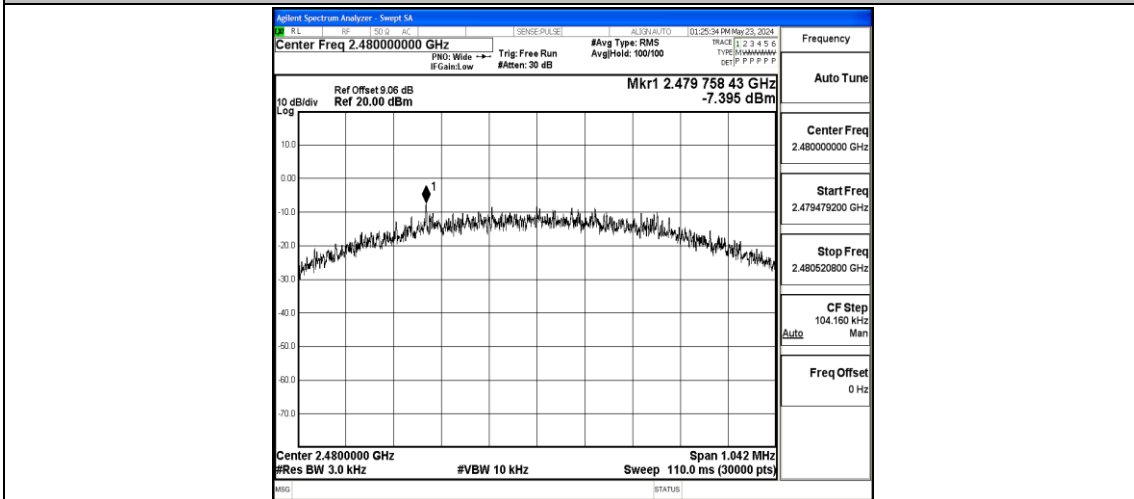
Test Graphs



BLE_1M-Ant1-240-PASS



BLE_1M-Ant1-2440-PASS



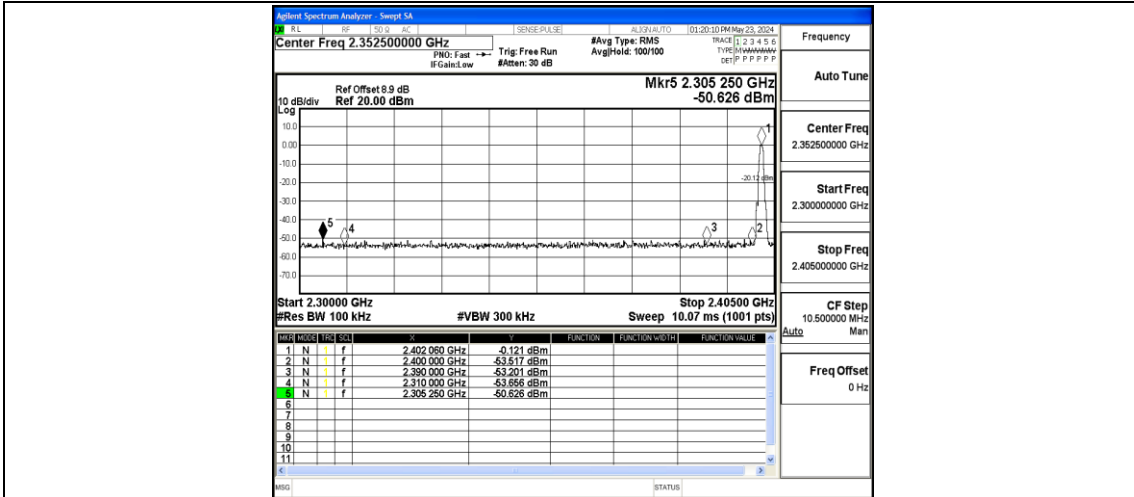
BLE_1M-Ant1-2480-PASS

Appendix E: Band edge measurements

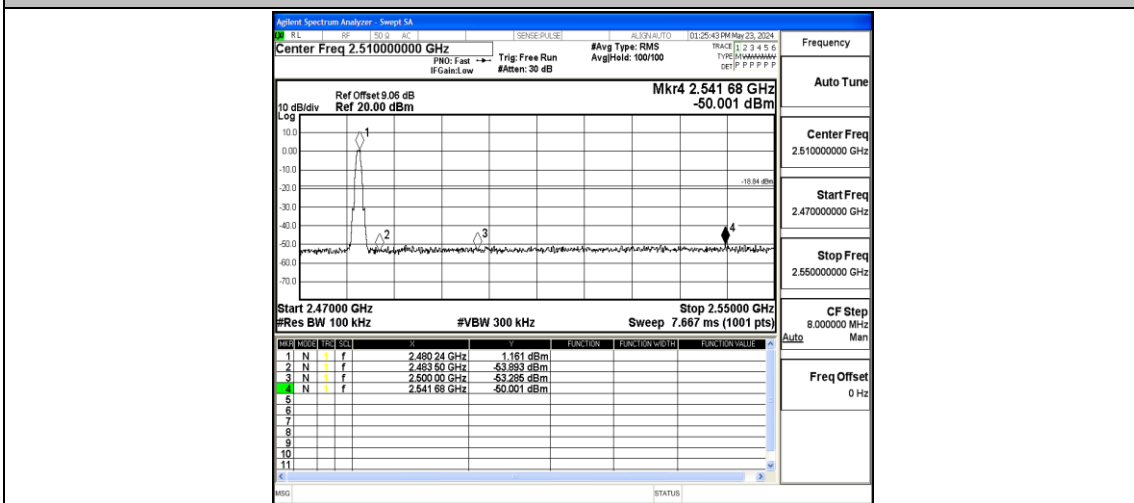
Test Result

TestMode	Antenna	Channel	Frequency[MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	Low	2402	-0.12	-50.63	≤-20.12	PASS
BLE_1M	Ant1	High	2480	1.16	-50	≤-18.84	PASS

Test Graphs



BLE_1M-Ant1-240-PASS



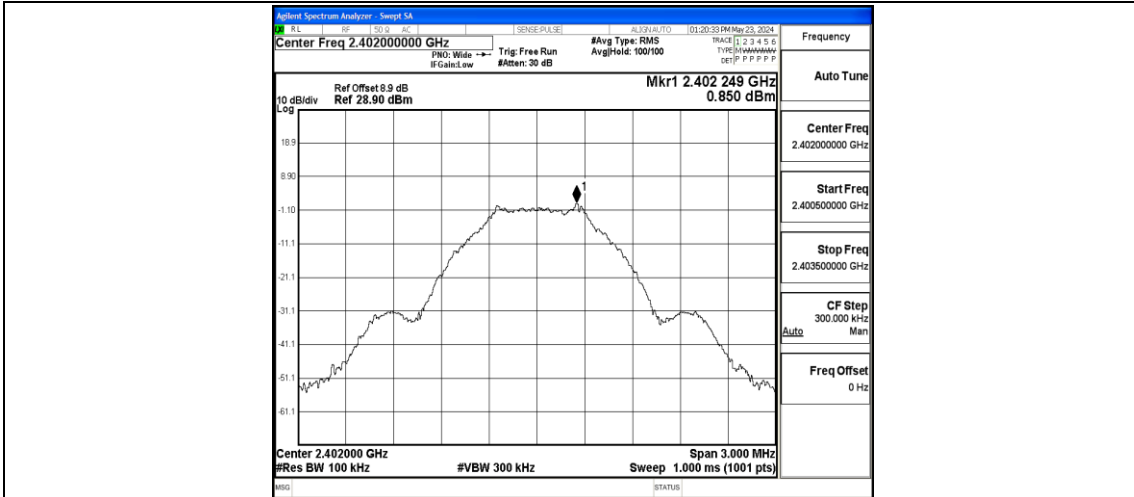
BLE_1M-Ant1-2480-PASS

Appendix F: Conducted Spurious Emission

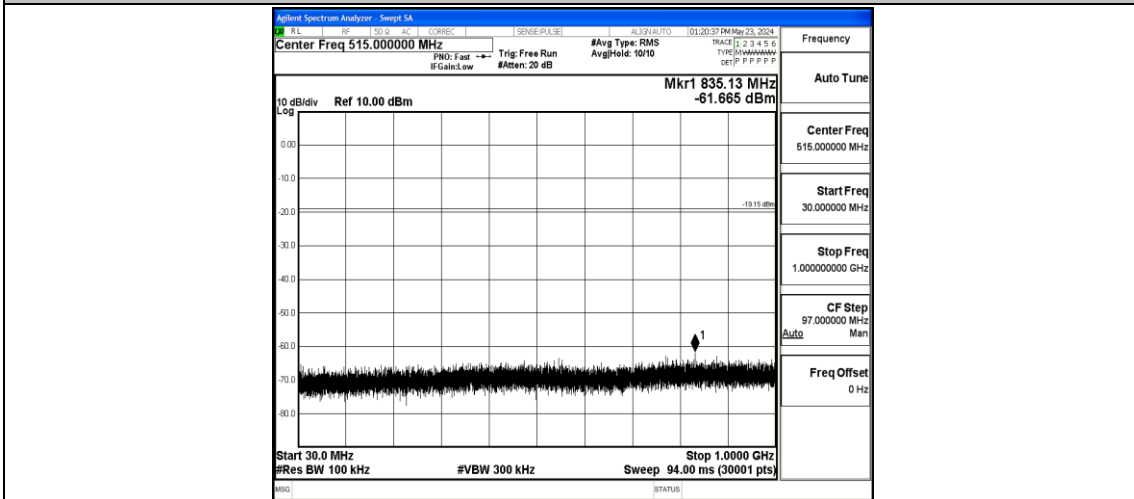
Test Result

TestMode	Antenna	Frequency[MHz]	FreqRange [MHz]	RefLevel [dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	2402	0~Reference	0.85	0.85	---	PASS
BLE_1M	Ant1	2402	30~1000	0.85	-61.67	≤-19.15	PASS
BLE_1M	Ant1	2402	1000~26500	0.85	-43.59	≤-19.15	PASS
BLE_1M	Ant1	2440	0~Reference	0.38	0.38	---	PASS
BLE_1M	Ant1	2440	30~1000	0.38	-50.31	≤-19.62	PASS
BLE_1M	Ant1	2440	1000~26500	0.38	-43.08	≤-19.62	PASS
BLE_1M	Ant1	2480	0~Reference	0.82	0.82	---	PASS
BLE_1M	Ant1	2480	30~1000	0.82	-62.22	≤-19.18	PASS
BLE_1M	Ant1	2480	1000~26500	0.82	-45.76	≤-19.18	PASS

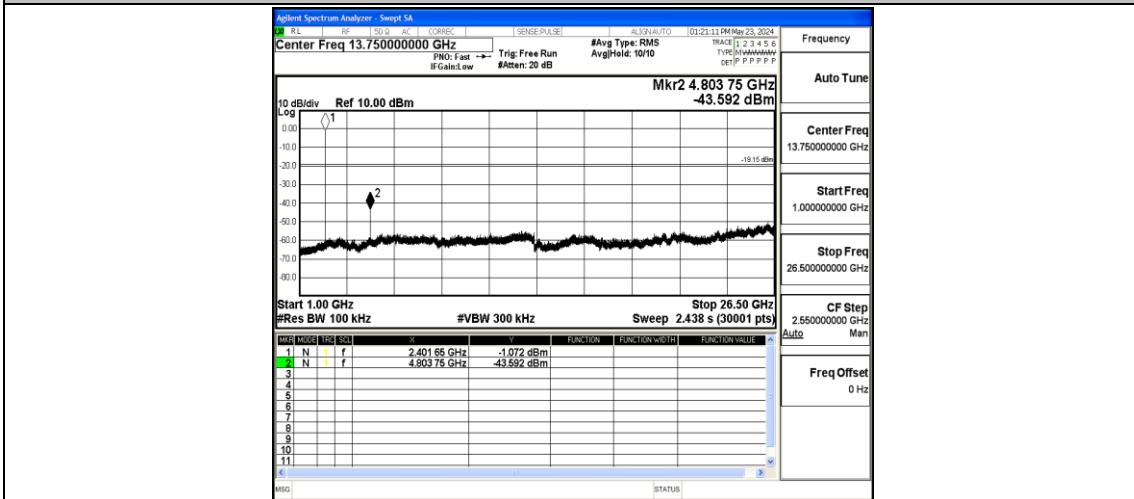
Test Graphs



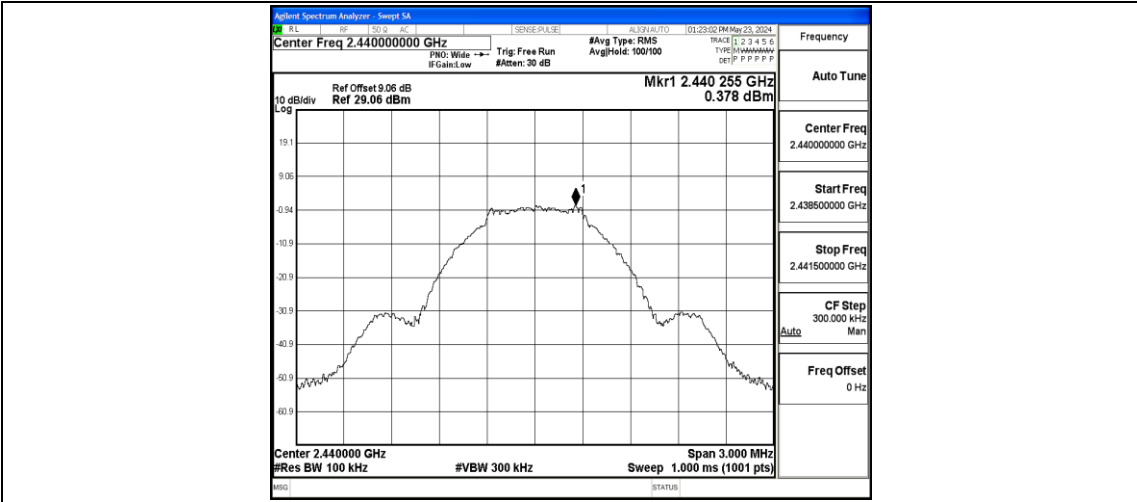
BLE_1M-Ant1-2402-0~Reference-PASS



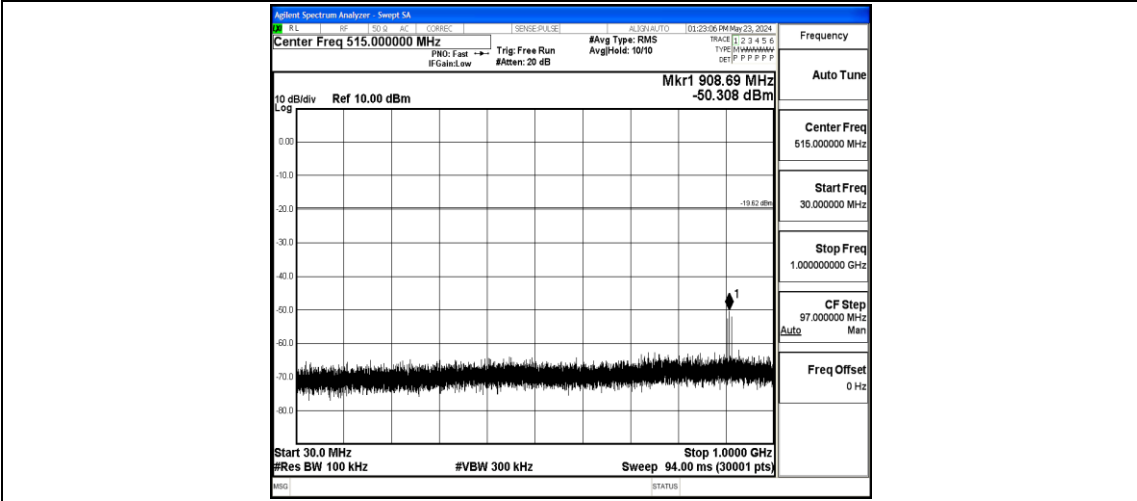
BLE_1M-Ant1-2402-30~1000-PASS



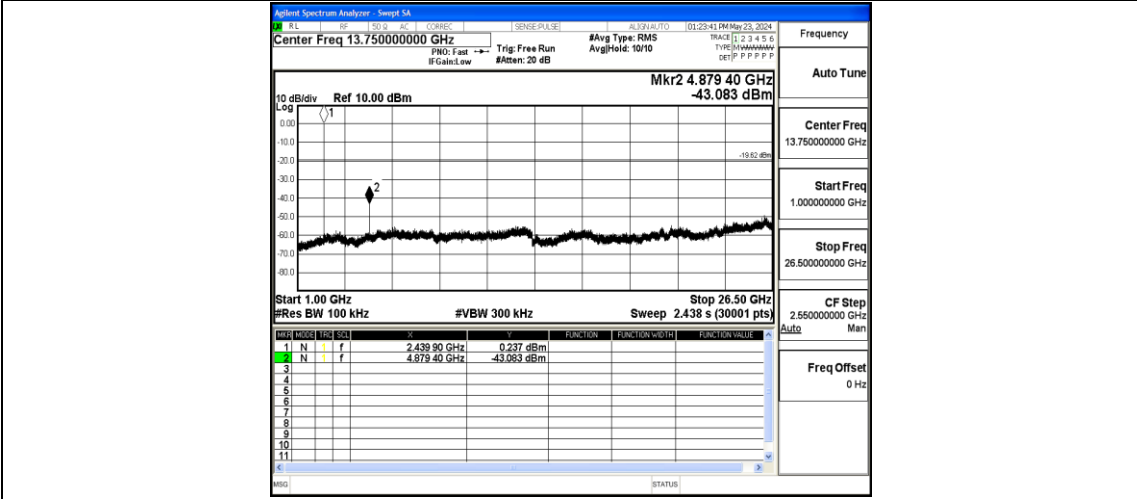
BLE_1M-Ant1-2402-1000~26500-PASS



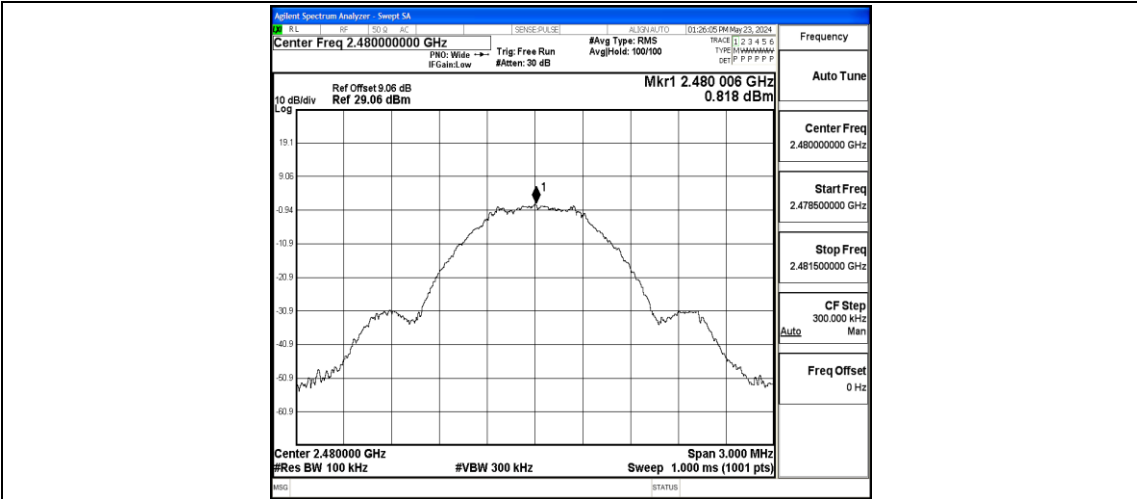
BLE_1M-Ant1-2440-0~Reference-PASS



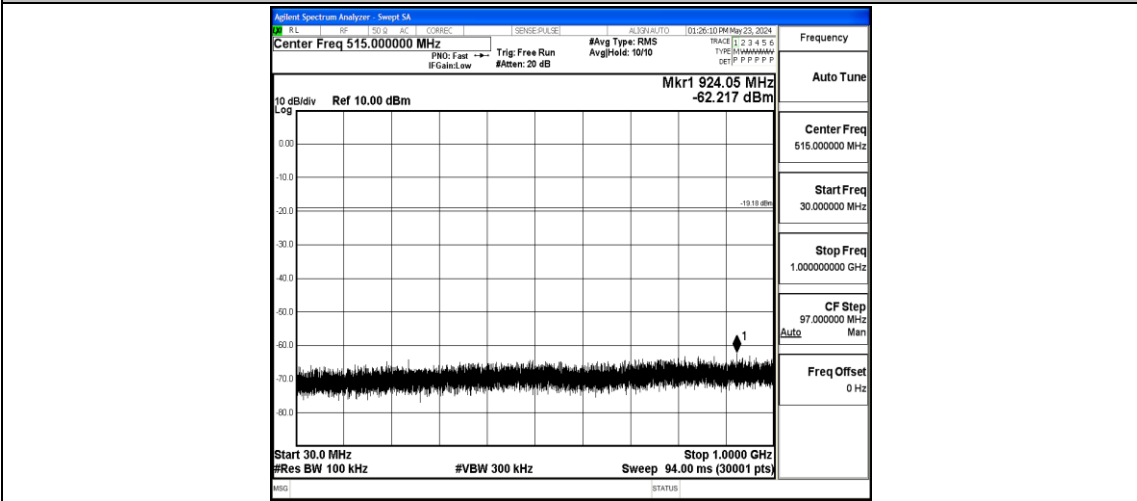
BLE_1M-Ant1-2440-30~1000-PASS



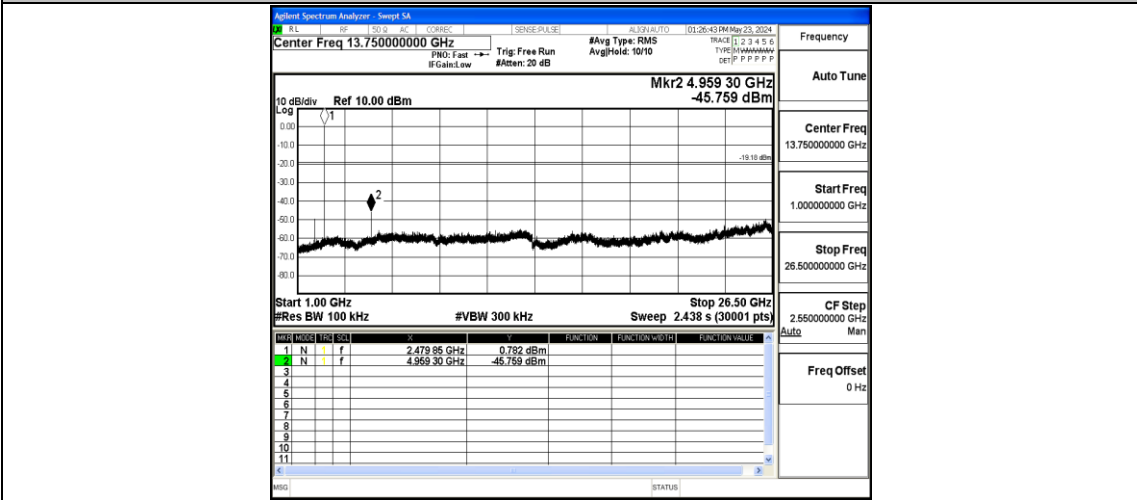
BLE_1M-Ant1-2440-1000~26500-PASS



BLE_1M-Ant1-2480-0~Reference-PASS



BLE_1M-Ant1-2480-30~1000-PASS



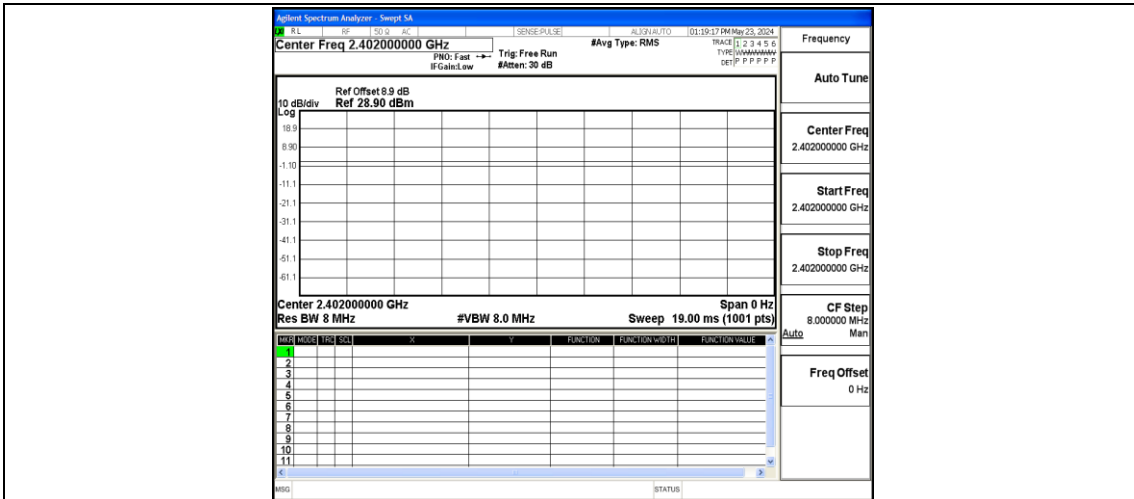
BLE_1M-Ant1-2480-1000~26500-PASS

Appendix G: Duty Cycle

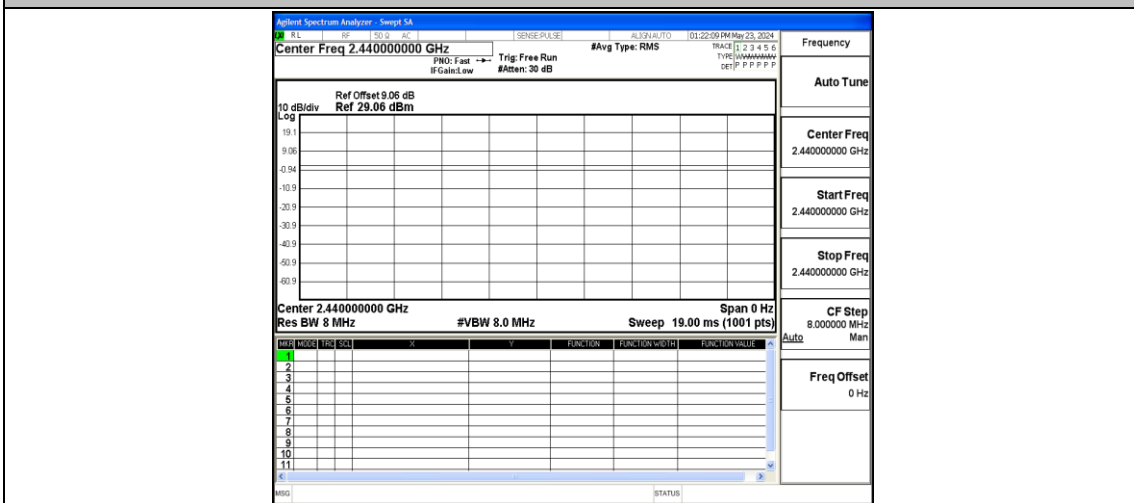
Test Result

TestMode	Antenna	Frequency[MHz]	ON Time [ms]	Period [ms]	Duty Cycle [%]	Duty Cycle Factor[dB]
BLE_1M	Ant1	2402	19.00	19.00	100.00	0.00
BLE_1M	Ant1	2440	19.00	19.00	100.00	0.00
BLE_1M	Ant1	2480	19.00	19.00	100.00	0.00

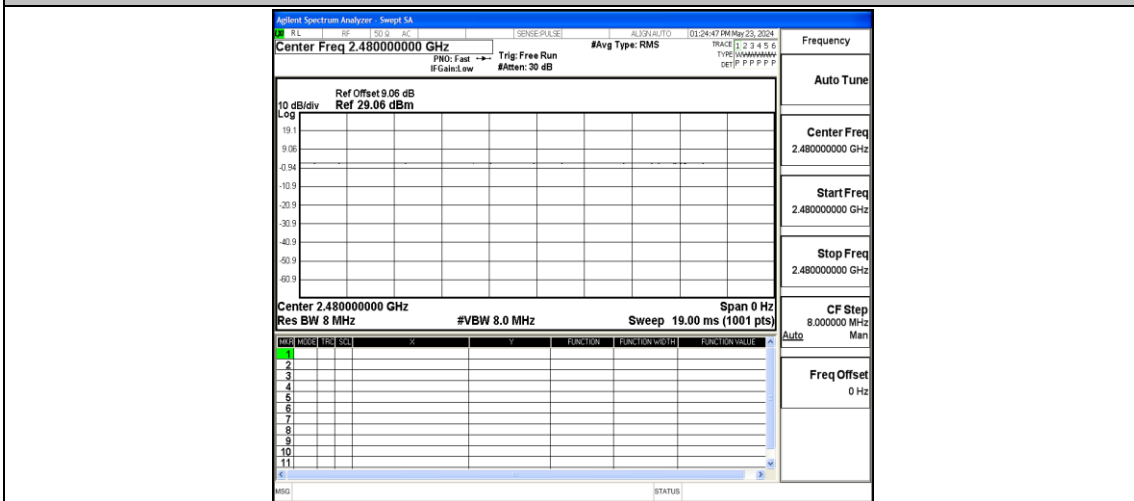
Test Graphs



NTNV-BLE_1M-Ant1-2402



NTNV-BLE_1M-Ant1-2440



NTNV-BLE_1M-Ant1-2480